SPIKE LINE Plot Control Commands

SPIKE LINE

PURPOSE

Specifies the line patterns used to draw spikes on subsequent plots. See the Graphics Attributes chapter for a list of available line styles.

DESCRIPTION

A spike is a vertical line from the plot point to the spike base (most typically the x axis). Spikes are specified by trace. That is, all points belonging to the same trace are drawn with the same spike attributes.

SYNTAX

```
SPIKE LINE <type> <type> etc.
```

where <type> is a character string that specifies the desired line type. Up to 100 spike line types can be specified.

EXAMPLES

```
SPIKE LINE SOLID DASH DOT
SPIKE LINE SOLID ALL
SPIKE LINE ALL SOLID
SPIKE LINE
```

NOTE

The SPIKE LINE command with no arguments sets the spike type to solid for all traces. The SPIKE LINE command with the word ALL before or after the specified type assigns that pattern line type to all traces; thus SPIKE LINE SOLID ALL or SPIKE LINE ALL SOLID plots spike patterns with solid lines for all traces.

DEFAULT

All spikes are drawn with solid lines.

SYNONYMS

SPIKE PATTERN

RELATED COMMANDS

PLOT = Generates a data or function plot.

SPIKE = Sets the on/off switches for plot spikes.

SPIKE BASE = Sets the base locations for plot spikes.

SPIKE COLOR = Sets the colors for plot spikes.

SPIKE DIRECTION = Sets the directions for plot spikes.

SPIKE THICKNESS = Sets the line thicknesses for plot spikes.

REFERENCES

"Elements of Graphing Data," William S. Cleveland, Wadsworth Advanced Books and Software, 1985.

"Visualizing Data," William S. Cleveland, Hobart Press, 1993.

APPLICATIONS

Presentation graphics, time series plots, dot charts

IMPLEMENTATION DATE

Pre-1987

Plot Control Commands SPIKE LINE

PROGRAM

LET CARTER = DATA 66 30 11 43 44 41 35 82 54 36 LET REAGAN = DATA 26 54 84 47 51 51 52 14 36 55 LET X = DATA 1 2 3 5 6 7 8 10 11 12

LLI N = DMM 1 2 3 3 0 7 0 10 11

TIC MARK LABEL FORMAT ALPHA

YLIMITS 1 12; YTIC OFFSET 1 1

Y1TIC LABEL CONTENT DEMOCRATS INDEPENDENTS REPUBLICANS SP() \dots

EAST SOUTH MIDWEST WEST SP() BLACKS HISPANICS WHITES SP()

MINOR Y1TIC MARK NUMBER 0

X1LABEL PERCENT: XLIMITS -100 100

MAJOR XTIC MARK NUMBER 11; MINOR XTIC MARK NUMBER 1

XTIC MARK LABEL CONTENT 100 80 60 40 20 0 20 40 60 80 100

.

LINE BLANK BLANK SOLID

CHARACTER CIRCLE CIRCLE

CHARACTER FILL ON ON

CHARACTER HW 1 0.75 ALL

SPIKE ON ON OFF

SPIKE DIRECTION H ALL

SPIKE LINE DASH DASH

TITLE DEMONSTRATE SPIKE LINE COMMAND; TITLE SIZE 5

LEGEND 1 CARTER; LEGEND 1 COORDINATES 17 85

LEGEND 2 REAGAN; LEGEND 2 COORDINATES 83 85; LEGEND 2 JUST RIGHT

.

LET CART2 = -CARTER

LET XJUNK = DATA 0.5 12.5; LET YJUNK = DATA 0.0

PLOT X VS REAGAN AND

PLOT X VS CART2 AND

PLOT XJUNK YJUNK

